Supplementary information

The IL-17A rs2275913 single nucleotide polymorphism is associated with protection to tuberculosis but related to higher disease severity in Argentina

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Supplementary Table S1.

		HD (N=207)			TB (N=185)		
rs2275913 genotypes		GG	GA	AA	GG	GA	AA
Sex	Male	40	31	10	98	41	6
	Female	68	45	13	26	10	4
P value		0.79			0.34		

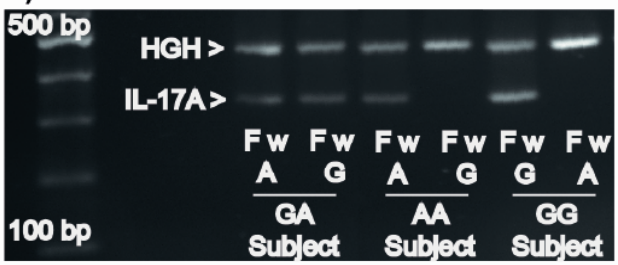
Genotypic frequencies of the IL-17A rs2275913 SNP in HD and TB populations stratified by sex. *P* values were calculated by the Chi-Square test for categorical variables. HD: healthy donors; TB: tuberculosis patients.

Supplementary Figure S1

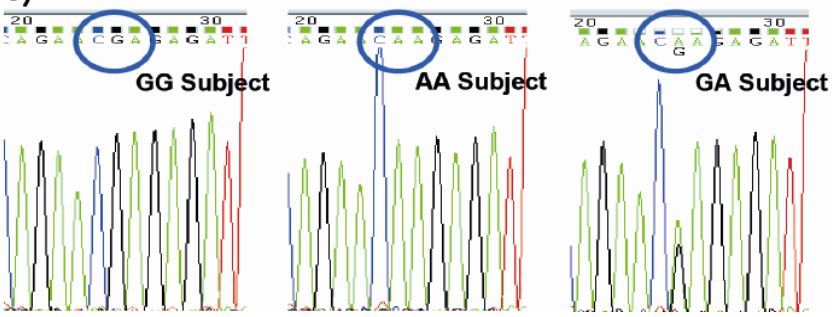
a)

ARMS PCR rs2275913 Primers	
FwG:	CTTGGCATTTTCCCTCAGAAGG
FwA:	CTTGGCATTTTCCCTCAGAAGA
Rv:	ATGCCCACGGTCCAGAAATAC

b)

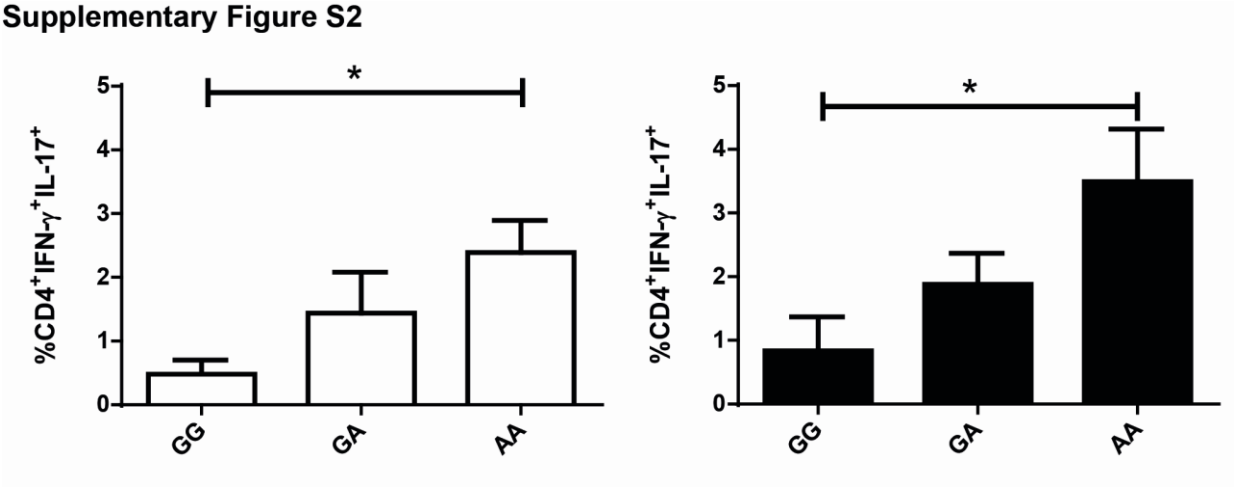


c)



Supplementary Figure S1. IL-17A rs2275913 SNP genotyping by ARMS-PCR method. (a) Primer sequences (two Forward primers and one common Reverse primer) designed to specifically amplify a 317 pb amplicon that discriminates both alleles of the rs2275913 SNP. **(b)** Image of an agarose gel displaying the PCR products obtained from three genotypically different individuals for the SNP under study is shown. PCR positive control: Human Growth Hormone (HGH) gene fragment (440 bp). rs2275913 genotypes were assessed from the presence/absence of PCR amplicon corresponding to the specific allele (A or G). **(c)** DNA sequencing of the amplicons obtained from three genotypically different individuals. Primers specificity of the rs2275913 SNP were confirmed by direct sequencing of the amplified IL-17A gene fragment by Sanger method and a 100% concordance was obtained among the results obtained from ARMS-PCR and DNA sequencing.

Supplementary Figure S2



Supplementary Figure S2. Percentage of IFN-γ^+IL-17A$^+$CD4$^+$T cells in *Mtb*-Ag stimulated PBMCs from HD and TB carrying the genotypic variants of the rs2275913 SNP. PBMCs from HD (n=15, white bars, left panel) and TB (n=16, black bars, right panel) carrying the different genotypes of the rs2275913 SNP were stimulated for five days with *Mtb*-Ag, and IFN-γ^+IL-17A$^+$CD4$^+$T cells percentage was determined by Flow Cytometry. The percentages represent an increase in the number of cytokine-positive CD4$^+$T cells in response to *Mtb*-Ag stimulation. IL-17A and IFN-γ expression was determined gating on lymphocytes by light scatter first, and then gating on CD4$^+$T cells. Bars represent the Mean ± SEM. P values were calculated by the Kruskal-Wallis (ANOVA) test for unpaired and non-parametric samples. *P<0.05.